

Title (en)

MODULAR FLOW SYSTEM WITH ASYMMETRIC OR DISCONTINUOUS LIQUID PASSAGE

Title (de)

MODULARES STRÖMUNGSSYSTEM MIT ASYMMETRISCHEM ODER DISKONTINUIERLICHEM FLÜSSIGKEITSKANAL

Title (fr)

SYSTÈME D'ÉCOULEMENT MODULAIRE AVEC PASSAGE DE LIQUIDE ASYMÉTRIQUE OU DISCONTINU

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Application

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Abstract (en)

[origin: WO2019233609A1] The invention relates to a modular flow system having a plurality of frame elements (101, 102) configured to be combined together to form a stack for forming a functional member such as in particular a membrane distillation stage, a vapor generator, a condenser, a heat exchanger, a filter and/or a pervaporation stage, wherein the frame elements (101, 102) each include: an outer frame (39) and an inner frame (43), the inner frame (43) encasing a central inner region (40) and being surrounded by the outer frame (39), at least one first passage opening (13 to 16) arranged between the outer frame (39) and the inner frame (43) and separated from the central inner region (40) by a frame wall on a first and/or opposite second frame side of the inner frame (43), and at least one liquid passage (45, 46) provided by the frame wall and configured to distribute a liquid from the first passage opening (13) to a feeding area (40') and/or to collect a liquid from the feeding area (40') to the first passage opening (16a, 16b)), the feeding area (40') being aligned with the central inner region (40) but being outside and/or in front of the inner frame (43), wherein the liquid passage extends asymmetrically and/or discontinuously along the first and/or second frame side.

IPC 8 full level

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